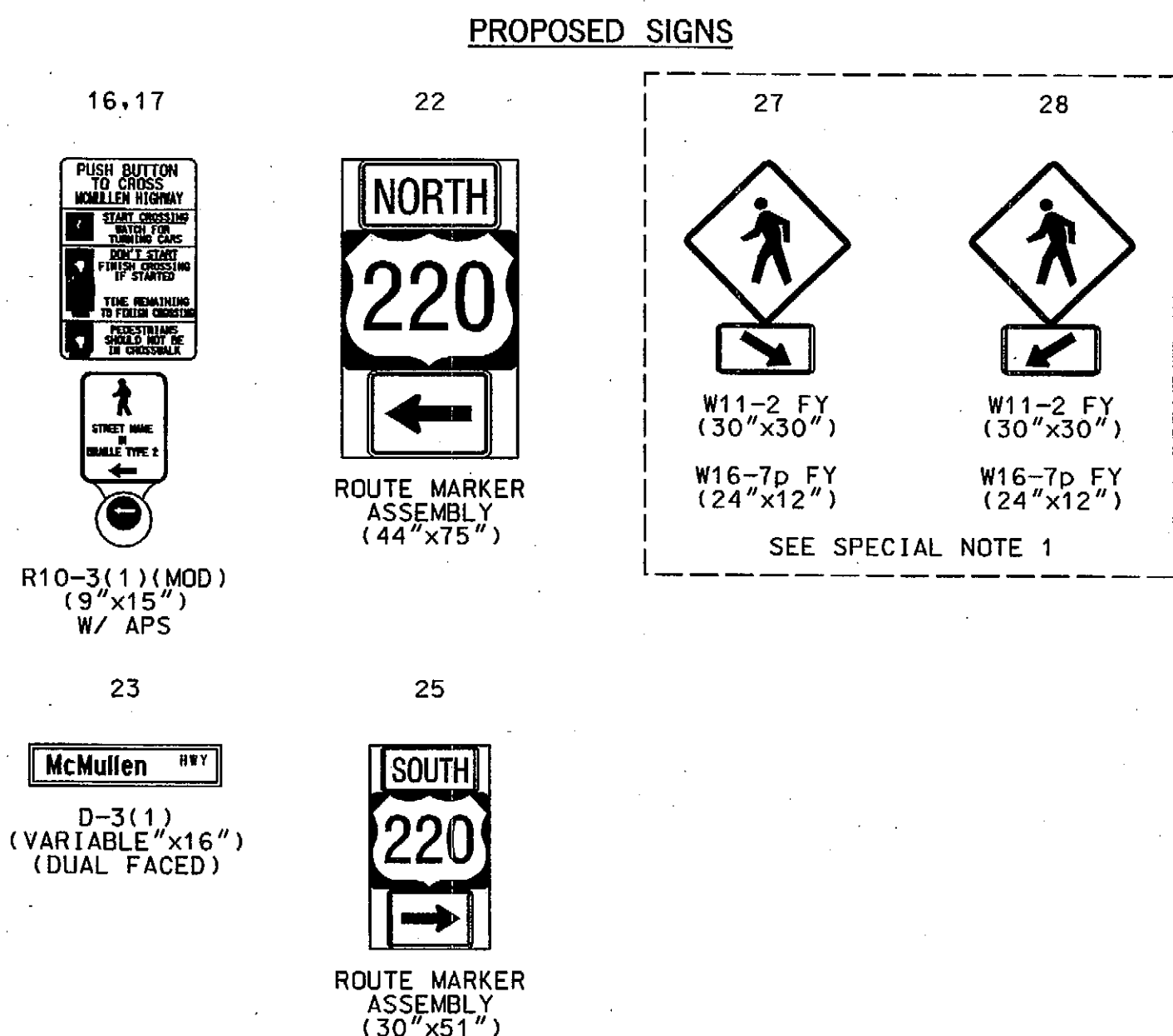
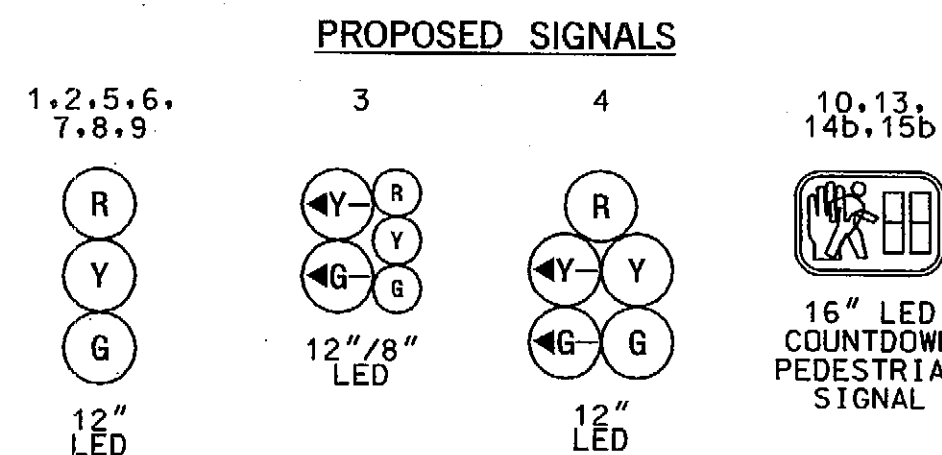
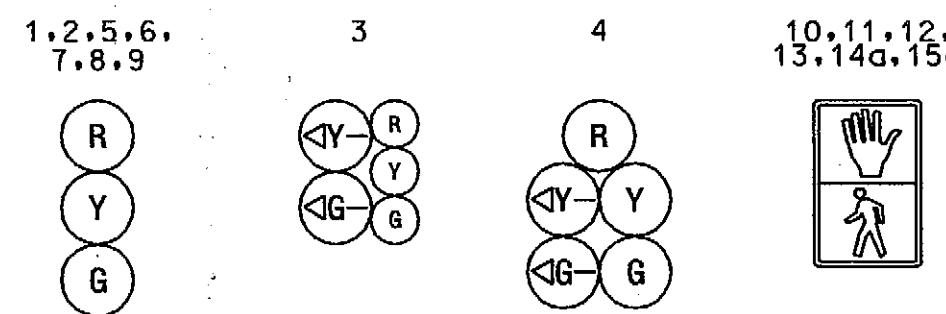


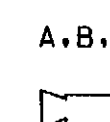
US 220 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



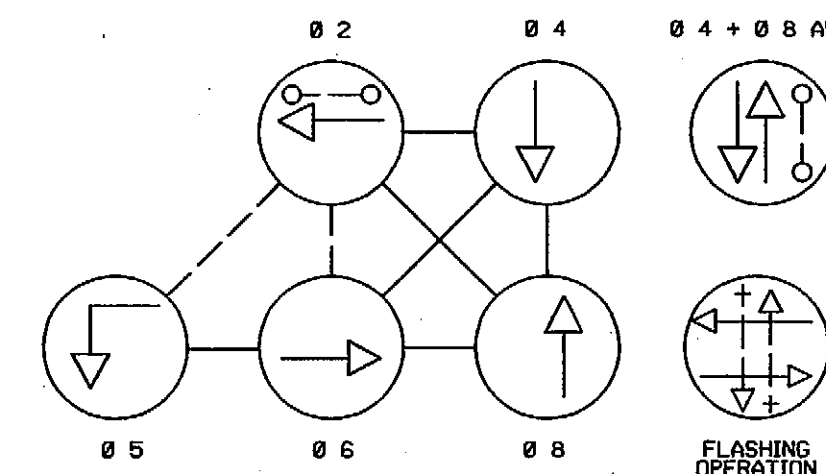
EXISTING SIGNALS TO BE REMOVED



EXISTING VIDEO DETECTION TO REMAIN



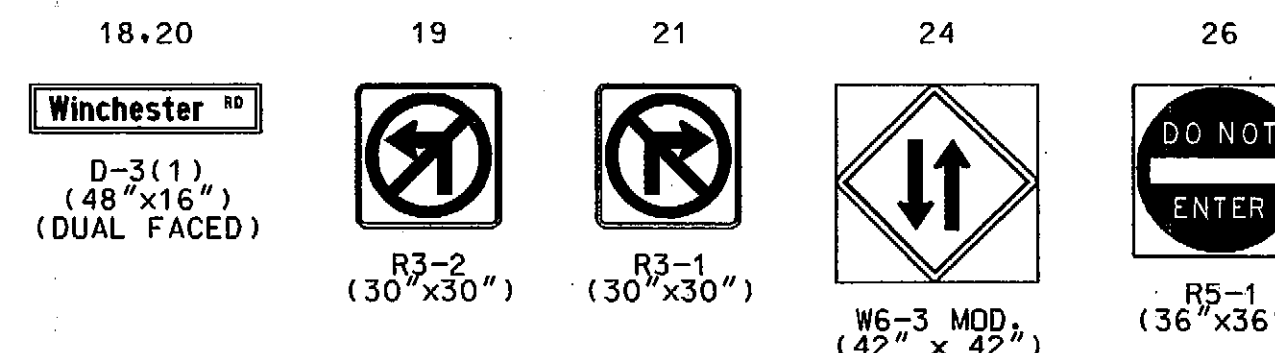
NEMA PHASING



PHASING NOTES:

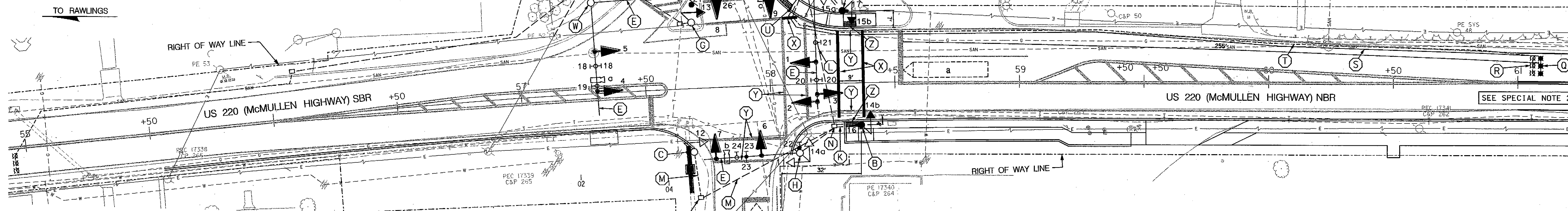
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

EXISTING SIGNS TO REMAIN



GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. ALL UNUSED SIGNAL CABLE SHALL BE PROPERLY REMOVED AND DISPOSED.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. ALL CROSSWALKS SHALL BE CENTERED TO THE PROPOSED SIDEWALK RAMPS.
7. PUSHBUTTONS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED AND LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 INCHES BY 60 INCHES LEVEL LANDING AREA WITHOUT HAVING TO REACH MORE THAN 18 INCHES. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO TWO (2) PERCENT.
8. LOCATIONS OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E-09 AND THE NCHRP PUBLICATION ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DIRECTOR-APPROVED DESIGN WAIVER IS OBTAINED FROM THE OFFICE OF TRAFFIC AND SAFETY. THE 10 FOOT SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.



CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH 10 FT. BREAKAWAY PEDESTAL POLE WITH POLE MOUNTED 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON, AND R10-3(1)(MOD) SIGN (TO READ "PUSH BUTTON TO CROSS MCMULLEN HIGHWAY") (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).
- B. INSTALL CONCRETE FOUNDATION FOR RELOCATED 10 FT. BREAKAWAY PEDESTAL POLE (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).
- C. RELOCATE 10 FT. BREAKAWAY PEDESTAL POLE TO STA. 58+36. 17 FT. RIGHT. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND ASSOCIATED ELECTRICAL CABLE AND INSTALL NEW 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON, AND R10-3(1)(MOD) SIGN (TO READ "PUSH BUTTON TO CROSS MCMULLEN HIGHWAY"). REMOVE EXISTING FOUNDATION 12 IN. BELOW GRADE.
- D. INSTALL 10 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (WITH PHOTOCELL) ON EXISTING 27 FT. SIGNAL POLE.
- E. REMOVE EXISTING TRAFFIC SIGNAL HEADS AND INSTALL PROPOSED TRAFFIC SIGNAL HEADS. REUSE EXISTING ELECTRICAL CABLES.
- F. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, ELECTRICAL CABLE FOR HEAD 15a, AND SIGN. INSTALL NEW 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD FOR CROSSING MD 53 AND REUSE EXISTING ELECTRICAL CABLE FROM HEAD 10.
- G. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD. INSTALL NEW 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD FOR CROSSING MD 53. REUSE EXISTING ELECTRICAL CABLE.
- H. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, ELECTRICAL CABLES FOR PUSHBUTTON AND HEAD 11, AND SIGN. INSTALL NEW SIGN ON POLE. PULL EXISTING CABLES FOR PEDESTRIAN SIGNAL HEAD 14a BACK TO THE EXISTING HANDHOLE AT STA 58+25. 17 FT. RIGHT AND FEED TO NEW PEDESTAL POLE LOCATION AT STA 58+36. 17 FT. RIGHT.

- I. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).
- J. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED).
- L. USE EXISTING CONDUIT.
- M. CAP AND ABANDON EXISTING CONDUIT.
- N. USE EXISTING HANDHOLE.
- P. REMOVE EXISTING HANDHOLE.
- Q. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN CABLE.
- R. ABANDON EXISTING MICROLOOP PROBE SET.
- S. SAWCUT NEW MICROLOOP PROBE WIRE IN EXISTING PAVEMENT.
- T. ABANDON EXISTING MICROLOOP PROBE WIRE.
- U. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT FOR DETECTOR SLEEVE.
- V. USE EXISTING CONTROLLER. INSTALL APS CENTRAL CONTROL UNIT IN EXISTING CABINET.
- W. INSTALL NEW SIGN ON EXISTING SIGNAL POLE.
- X. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (CROSSWALK).
- Y. REMOVE EXISTING PAVEMENT MARKINGS.
- Z. SIDEWALK RAMP AND DETECTABLE WARNING SURFACE TO BE INSTALLED AS PART OF SHA PROJECT NO. AL8795184.
- AA. PROPOSED SIGN TO BE INSTALLED AS PART OF SHA NO. AL8795184.
- BB. INSTALL OUTDOOR 120V, 20 AMP GFI ELECTRICAL RECEPTICAL.

SPECIAL NOTES

1. FOR FINAL PAVEMENT MARKINGS AND SIGNING OTHER THAN THOSE DETAILED ON THIS PLAN, REFER TO SHA NO. AL8795184 SIGNING AND PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
2. MICROLOOP PROBE SET SHALL NOT BE INSTALLED UNTIL THE FINAL PAVEMENT OVERLAY FOR SHA NO. AL8795184 IS COMPLETE.
3. FINAL PLACEMENT OF ELECTRICAL RECEPTICAL SHALL BE COORDINATED WITH THE ENGINEER AND THE ALLEGANY COUNTY DEPARTMENT OF PUBLIC WORKS.

GEOMETRIC LEGEND	EXISTING	PROPOSED
STORM DRAIN	---	---
GAS MAIN	---	---
WATER MAIN	---	---
SEWER MAIN	---	---
ELECTRIC CABLES	---	---
AERIAL CABLES	---	---
TELEPHONE CABLES	---	---
FIBER-OPTIC	---	---

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 220 FROM MD 53 TO 0.41 MILES NORTH OF MD 636
PHASE I (CRESAPTOWN)

APPROVALS	REVISIONS	TRAFFIC SIGNALIZATION PLAN - US 220 @ MD 53 / WINCHESTER ROAD
TEAM LEADER ASST. DIR. CHIEF DIVISION CHIEF OFFICE DIRECTOR	① Upgrade Ped Crossing With APS and CPS; Install LED Signal Heads; Remove West Side Crossing BSH ② Reconstruct Traffic Signal Due To Geometric Improvements SHA No. AL8795184 ③ Add Ped PB And Sign For SE And W Lgts Of Intersection SHA No. Unknown DBD	SCALE 1" = 20' DATE 5/29/73 CONTRACT NO. A-575X-000-685 DESIGNED BY DRAWN BY M. LINARDI CHECKED BY B. THOMPSON F.A.P. NO. SEE TITLE SHEET T.S. NO. 516 F SG-03 OF SG-04 SHEET NO. 106 OF 121

BY: SUSANMAYES

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